

Desiro ML ÖBB cityjet

for ÖBB Personenverkehr AG

Mobility today is facing myriad challenges. The volume of traffic is increasing, and with it the demands of modern railway operators. A connection needs to be fast, punctual and absolutely safe. This calls for flexible, functional systems that allow an improved utilization of available resources. Systems that are highly available and reliable to ensure attractive and profitable operations – while ensuring sustained customer satisfaction. These higher expectations and requirements have been taken into account in the design of the Desiro ML. The Desiro ML is used under the name cityjet for ÖBB.

With a maximum speed of 160 km/h and high acceleration, the Desiro ML is perfectly equipped for these tasks.

Two design alternatives of the Desiro ML are built for the ÖBB-Personenverkehr (PV) AG (ÖBB Passenger Traffic, Austrian Federal Railways): the urban train design for large metropolitan areas such as Vienna and the regional train design. The ÖBB cityjet also offers a variable, low-floor seating arrangement as well as spacious entrance and intercar gangway areas, an attractive, innovative design and maximum riding comfort, and barrier-free entrance to all 550-mm station platforms in Austria.

For lower platforms in the region, sliding steps and a lift are provided on each side. With its combination of state-of-the-art technologies and service-proven equipment and compliance with the requirements of current standards governing crashworthiness and environmental compatibility, the ÖBB cityjet is setting new standards in modern rail service. ÖBB-PV and Siemens have paid close attention to passenger comfort and barrier-free travel.



Urban train



Regional train

Technical Data

Wheel arrangement	Bo'Bo'+2'2'+Bo'Bo'
Track gauge	1,435 mm
Maximum speed	160 km/h
Traction power	up to 2,600 kW
Starting acceleration	up to 1.1 m/s ²
Power supply	15 kV AC / 25 kV AC
Length (over coupling)	75,152 mm
Floor height	600 mm
Entrance areas	6 on each urban train, 4 on each regional train
Capacity	244 seats on urban train, 259 seats on regional train
Maximum axle load	< 17 t
Crashworthiness	TSI and EN 15227 conform
Fire protection	CEN / TS 45545 and DIN 5510 Fire protection level 2

Project details:

- Passenger compartment with a modern and future-oriented design
- Daylight-dependent LED lighting
- Generous seat spacing
- Passenger seats tailored to passenger requirements were developed in cooperation with ÖBB
- All passenger seats are adjustable
- Separate multipurpose areas for bicycle transport
- CO₂-controlled air conditioning
- Multifunctional multipurpose areas with sufficient space
- Large displays for passenger information
- Bogies from the SF6000 family
- Ramp-free access to universal WC
- All entrances have a low sliding step and the last entrance has an extendable step designed to bridge the gap

Interior design

Combined with the attractive design, the construction of the train's interior creates a spacious ambience, coupled with comfort and safety, timeless color schemes and folding tables.

Energy savings

The ÖBB cityjet has an especially energy-saving design. A variety of technical equipment helps the traction vehicle engineers save energy.

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